

# VMAX LFP12200MH Battery Datasheet

## Electrical

Nominal Voltage	12.8V (3.2V/cell)
Rated Capacity (20h @ 25C)	200AH
Rated Energy	2560Wh
Output Voltage Range	10.0V-14.6V
Cut-Off Voltage	10.0V
Max. Constant Discharge Current	200A
Max. 3sec Discharge Current	220A

## Charging

Charging Voltage	14.6V (CC-CV)
Max. Constant Charging Current	200A
Recommended Charging Current	20A -75A, Best @ 35A
Recommended Charger Type	CC-CV until current <4A (0.02C)

## Operating Temperatures

Charging Temperature	<0C* ~ 45C (+32F~ +113F) *Heater turns ON
Discharging Temperature	-20C ~ 65C (-4F ~ +150F)
Storage Temperature	-20C ~ 45C (-4F ~ +113F)
Heater ON (Powered by Charger)	Cells <0C, Heater temp ~40C
Heater OFF	Cells >8C, Heater temp ~70C
Over-Temperature Protection - Charging	<-5C ( 23F) , >65C (150F)
Over-Temperature Protection - Discharging	<-20C (-4F), >65C (150F)

## Performance Data

Efficiency	>98%
Cycle Life @80% DOD	~6000 @ 8A, 25C (77F)
Cycle Life @90% DOD	>4000 @ 8A, 25C (77F)
Design Life	~10 Years

## Protection

Built-in BMS	Yes
Over-Charge Voltage Protection	Module: >14.8V, Cell: >3.8V
Over-Discharge Voltage Protection	Module: <10.0V, Cell: <2.0V
Over-Charge Current Protection	>200A w/15sec Delay, >220A w/ 2sec Delay
Over-Discharge Current Protection	>200A w/ 15sec Delay, >220A w/ 3sec Delay
Short-Circuit Protection	>450A
Cell Balance	Passive, 150mA

## Physical

Battery Case Material	ABS
Dimensions (L x W x H)	20.55" x 9.45" x 8.58"
Terminals	M8 Screw In
Weight	47lb

## Notes & Warnings

Parallel wiring	Parallel wiring is acceptable for up to FOUR batteries.
Series wiring	Series wiring is acceptable for up to FOUR batteries.

## Identifiers

BCI Group	4D
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Information sourced from vmaxtanks.com on August 2025 and is subject to change as products are updated.

